

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1808	375/316.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/07 12:39
L2	665	1 and amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/07 12:39
L3	82	2 and (pulse near2 width)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/12/07 12:40
S1	3589	oshita.in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 10:57
S2	43	(Akihiro and oshita).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:00
S3	16	S2 and amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:03
S4	164	(toshitaka and yamato).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:04
S5	21	S4 and amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:08

## EAST Search History

S6	984	(yoshihiko and watanabe).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:08
S7	38	S6 and amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:42
S8	0	07-274248	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:42
S9	269117	sony corp	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:42
S10	0	S9 and "274248"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:46
S11	6333	amplif\$4 and audio and (pulse width) and modulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:48
S12	2	S11 and (pulse width modulation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:50
S13	0	S11 and (audio aplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:51

## EAST Search History

S14	15849	audio amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:51
S15	591	S14 and (pulse width modulation)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 11:51
S16	165112	amplifier with switch\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 13:58
S17	84815	S16 and driv\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 13:59
S18	28066	S17 and compensat\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 13:59
S20	22052	S18 and compar\$4	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 14:00
S21	0	S20 and (S1 near bit\$1)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 14:01
S22	0	(S1 near bit\$1) same amplifire	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 14:01

## EAST Search History

S23	0	(S1 near bit\$1) same amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 14:01
S24	0	(S1 near bit\$1) and amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 14:02
S25	5748	(1-bit\$1) and amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 14:02
S26	382	S25 and (offset near2 voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 14:03
S27	205	S26 and modulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 14:03
S28	71	S27 and audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 14:04
S29	8192	(offset voltage) and (through near2 current)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 11:56
S30	689	S29 and amplifier and audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 15:44

## EAST Search History

S31	234	S30 and (power near2 amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 15:29
S32	167	S30 and (power amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 15:30
S33	31	S32 and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 15:44
S34	743	S29 and ((pulse width) with modulat\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 15:44
S35	105	S34 and amplifier and audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 15:44
S36	44	S35 and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 16:03
S37	3731	375/238,239,237,240,241,242.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 16:21
S38	98	S37 and (width with adjust\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 16:43

## EAST Search History

S39	5829	330/251,253,259,260,264,265,269,271,277.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/04 16:43
S40	21	S39 and amplifier and ((pulse width) with adjust\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/05 07:30
S41	5597	(delta near sigma) with modulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/05 07:31
S42	400	S41 and (audio with amplifier)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/05 07:31
S43	71	S42 and (driv\$3 near2 circuit)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/05 08:02
S44	1556	(audio amplifier) same (driv\$3 with (circuit or component or unit))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/05 08:03
S45	615	S44 and (amplifier with switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/05 08:04
S46	0	S45 and (on and off) and (offset voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/05 08:05

## EAST Search History

S47	20	S45 and (on and off)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/05 08:05
S48	7	S45 and (offset voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/05 08:11
S49	170	(audio amplifier) and (bridge near2 switch\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/05 08:12
S50	6	S49 and (offset near2 voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/05 08:12
S51	20	("5548286"   "5777512"   "5784017"   "5815102"   "5866969"   "5901176").PN. OR ("6373334"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 08:15
S52	9	("5398003"   "6091292"   "6118336"   "6232833"   "6373334"   "6404280"   "6594309"   "6628221").PN. OR ("6952131"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 08:17
S53	3	("5629610"   "6169669"   "6373334").PN. OR ("6812681"). URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 08:51
S54	3173	subset near3 channels	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 08:51
S55	92	S54 with (sum\$3 or add\$2)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 09:12
S56	36143	((drive or driver or driving) near2 (unit or circuit or component)) same amplifier	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 09:15
S57	1	S56 and (amplifier with (bridge and swtich))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 09:15

## EAST Search History

S58	4	S56 and (amplifier same (bridge and swtich\$3))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 09:18
S59	24058	(offset near2 voltage)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 09:18
S60	44744	through adj current	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 09:19
S61	2032	S59 and S60	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 09:19
S62	1737	S61 and amplifier	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 09:19
S63	1416	S62 and (driv\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 09:20
S64	172	S63 and audio	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 12:55
S65	2	"5594386".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/05 14:34
S66	24	("2915588"   "3038964"   "3294981"   "4015213"   "4456872"   "4990862"   "5006817"   "5160896"   "5247581").PN. OR ("5594386").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 14:45
S67	3006	(pulse width) and (offset near voltage)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 15:18
S68	2477	S67 and amplifier	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 15:19
S69	1690	S68 and modulat\$4	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 15:19
S70	1296	S69 and ((pulse near width) with modulat\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 15:20
S71	595	S70 and (amplifier with (bridge or switch))	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 15:37



## EAST Search History

S72	287	S71 and controller	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 16:30
S73	24307	"323".clas.	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 16:30
S74	1065	S73 and (controller\$1 same amplifier)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 16:30
S75	497	S74 and (Pulse near2 width near2 modulat\$3)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 16:31
S76	84	S75 and (offset near2 voltage)	US-PGPUB; USPAT; USOCR	ADJ	ON	2006/10/05 16:31
S77	6	(break near before near make) with distort\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 12:16
S78	35	(break near before near make) same distort\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 12:16
S79	29	S78 not S77	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 12:26
S80	532	shoot near through near current	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 12:27
S81	43	S80 and (voltage near offset)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 13:03

## EAST Search History

S82	2	(huan near jan near hung).in.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 13:04
S83	8928	(switch with amplifier) and (voltage with offset)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 14:32
S84	82	S83 and (on and off)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 14:33
S85	29	S84 and bridge	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 14:59
S86	53	S84 not S85	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 15:04
S87	9	"4810973"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 15:14
S88	12748	(pulse near2 width) with adjust\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 15:15
S89	18927	(pulse near2 width) with (adjust\$3 or correct\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 15:16

## EAST Search History

S90	829	S89 and amplifier and (offset with (voltage or DC))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 15:17
S91	134	S90 and audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 15:52
S92	110266	"327".clas.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 15:52
S93	798	327/31.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 15:53
S94	273	S93 and amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 15:53
S95	31	S94 and audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 16:03
S96	232	329/312.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 16:03
S97	97	S96 and amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 16:05

## EAST Search History

S98	25	S97 and audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 16:08
S99	1853	327/172.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 16:08
S10 0	28	S99 and (amplifier same audio)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 16:19
S10 1	78	398/191.ccls.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 16:20
S10 2	52	S101 and amplifier	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 16:40
S10 3	3066	((bridge or switch\$3) near2 amplifier) and (offset near2 voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 16:41
S10 4	389	S103 and audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 16:42
S10 5	2	S77 and (pulse near2 width near2 modulat\$3)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/10 16:42

## EAST Search History

S10 6	0	brige same amplif\$4 same voltage same offset same feedback	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 07:37
S10 7	0	brige same amplif\$4 same voltage same offset	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 07:37
S10 8	5906	amplif\$4 same voltage same offset same feedback	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 07:37
S10 9	390	S108 and (audio same amplif\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 07:38
S11 0	925	S108 and (pulse with width)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 07:38
S11 1	63	S109 and (pulse with width)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 08:21
S11 2	15130	(pulse with width with (compensat\$4 or correct\$3 or chang\$3 or adjust\$4)) and amplifier\$1	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 08:23
S11 3	6595	S112 and feedback	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 08:23

## EAST Search History

S11 4	912	S113 and audio	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 08:23
S11 5	80	S114 and (offset near2 voltage)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 08:24
S11 6	427	S114 and ((offset near2 voltage) or (through near2 current))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 08:25
S11 7	406	S116 and switch\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 08:25
S11 8	351	S117 and modulat\$3	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	ADJ	ON	2006/10/11 08:26